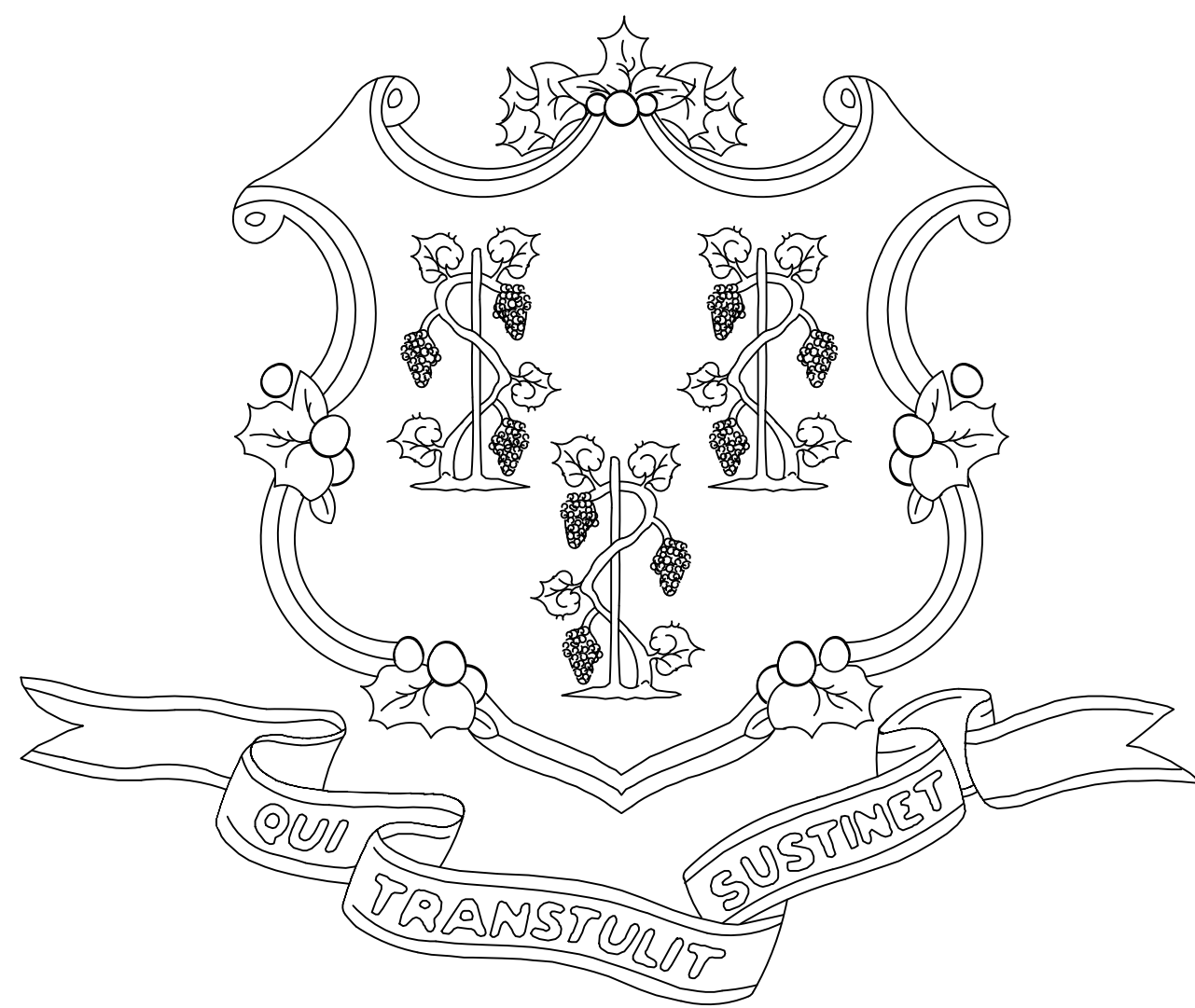


STATE OF CONNECTICUT



DANNEL P. MALLOY, GOVERNOR

DEPARTMENT OF ENERGY AND ENVIRONMENTAL PROTECTION
ROBERT J. KLEE, COMMISSIONER

DAM REMOVAL
SPRINGBORN DAM
WR-DR-4905-2016-01

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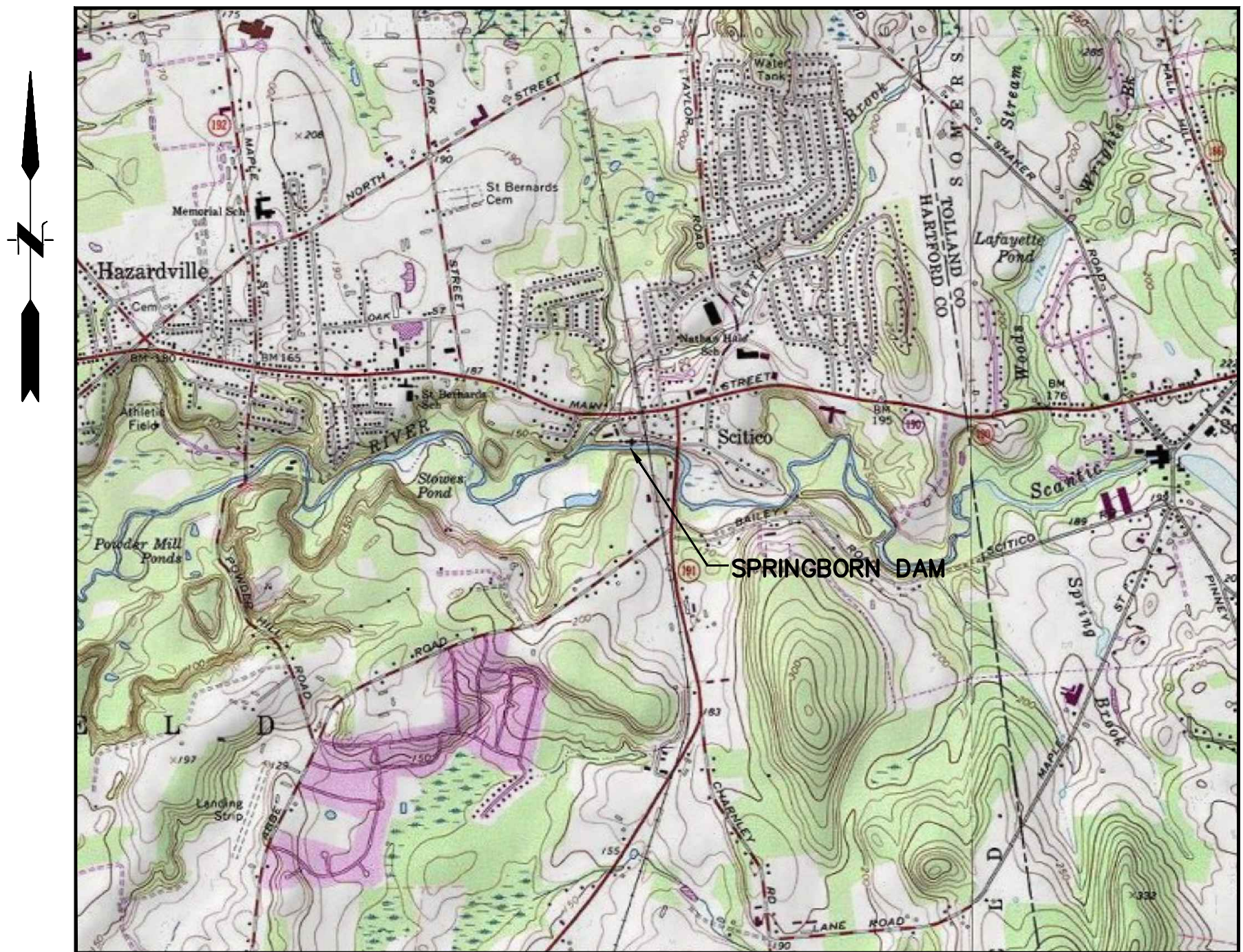
Prepared by:



FUSS & O'NEILL

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MANCHESTER, CONNECTICUT 06040
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ENFIELD, CONNECTICUT



LOCATION PLAN

SCALE: 1" = 2,000 FT.

1. "PLAN PREPARED FOR SPRINGBORN LABORATORIES, INC. HAZARD AVENUE AND ABBE ROAD ENFIELD, CONN." SCALE 1"=100' DATE JUNE 30, 1987 BY ALFORD ASSOCIATES, INC. MAP FILED AS VOL. 220 AT PAGE 3033.
2. "PLAN OF DEVELOPMENT IN HAZARDVILLE, CONN. OWNED BY JOHN MARTIN" SCALE 1"=50' DATE NOV. 20, 1957 BY F.B. SHERMAN-SURVEYOR. MAP FILED AS VOL. 6 AT PAGE 208.
3. "PROPERTY MAP SHOWING LAND TO BE ACQUIRED BY STATE OF CONN. DEPT OF ENVIRONMENTAL PROTECTION FROM THE HARTMAN TOBACCO CO. CONN. ROUTE 190 (HAZARD AVE.) ENFIELD, CONN." SCALE 1"=100' DATE 5/2/79 BY FUSS & O'NEILL
4. "PROPERTY OF CAROL ANN WEAVER DARBROOK ROAD ENFIELD, CONN." SCALE 1"=30' DATE JULY 1974 BY JAMES P. MURPHY, LAND SURVEYOR MAP FILED AS VOL15 AT PAGE 734.
5. "SCHEDULE A-3 PHASE II ABBEWOOD A PLANNED COMMUNITY PREPARED FOR H.I.O. TRUST, INC. TRUSTEE, ENFIELD, CONN." SCALE 1"=40' DATE 7-4-97 BY AESCHLIMAN LAND SURVEYING
6. TOPOGRAPHIC SURVEY AND BOUNDARY SURVEY PERFORMED BY FUSS & O'NEILL ON APRIL 1, 2015 AND JUNE 7, 2016.
7. WETLANDS DELINEATED BY FUSS & O'NEILL, INC ON MAY 20, 2008 AND JULY 18, 2015.

1. THE CONTRACTOR SHALL VERIFY THE EXISTING LOCATION OF THE DAM TO BE REMOVED AND THE PROPOSED LAYOUT OF THE RIVER CHANNEL IMPROVEMENTS WITH ITS RELATIONSHIP TO THE EXISTING SITE SURVEY. THE CONTRACTOR SHALL ALSO VERIFY THE LOCATIONS, SIZES AND DEPTHS OF ALL EXISTING UTILITIES AND SHALL NOTIFY THE OWNER AND ENGINEER OF ANY ERRORS, OMISSIONS OR DISCREPANCIES BEFORE COMMENCING OR PROCEEDING WITH WORK.
2. THE LOCATION OF EXISTING UTILITIES ARE APPROXIMATE, HAVE BEEN PLOTTED FROM THE LATEST AVAILABLE INFORMATION, AND MAY NOT BE ALL INCLUSIVE. THE CONTRACTOR SHALL CHECK AND VERIFY THE LOCATIONS OF ALL EXISTING UTILITIES, BOTH OVERHEAD AND UNDERGROUND, AND "CALL BEFORE YOU DIG" MUST BE NOTIFIED PRIOR TO COMMENCING ANY CONSTRUCTION OPERATIONS. RESTORATION AND REPAIR OF DAMAGE TO EXISTING UTILITIES SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR WITH NO ADDITIONAL COST TO THE OWNER. NO EXCAVATION SHALL COMMENCE UNTIL ALL INVOLVED UTILITY COMPANIES AND/OR AGENCIES HAVE FACED WITH THE AFFECTED WORK AREAS. ALL WORK LOCATIONS AND UTILITIES ARE NOTIFIED AT LEAST 72 HOURS IN ADVANCE. RELOCATION OF ANY UTILITIES SHALL BE AT THE OWNERS EXPENSE AND COMPLETED WITH THE UTILITY WORK. THE OWNER SHALL BE NOTIFIED AS TO THE RELOCATIONS REQUIRED PRIOR TO THE START OF CONSTRUCTION.
3. DEVIATIONS OR CHANGES FROM THESE PLANS WILL NOT BE ALLOWED UNLESS APPROVED BY THE ENGINEER/CONTRACTOR OWNER.
4. THE CONTRACTOR SHALL MAKE EXPLORATORY EXCAVATIONS AND LOCATE ANY EXISTING UTILITIES SUFFICIENTLY AHEAD OF CONSTRUCTION TO PERMIT REVISIONS TO PLANS IF NECESSARY. HOWEVER, EXPLORATORY EXCAVATIONS AND OTHER ACTIVITIES INVOLVING SOIL DISTURBANCES WITHIN THE RIVER OR OTHER ADJACENT WATERCOURSES SHALL BE LIMITED TO THE LOW-FLOW PERIOD (I.E. THE PERIOD FROM JULY 1 TO OCTOBER 31 OF ANY CALENDAR YEAR).
5. THE EXISTENCE AND/OR LOCATION OF UTILITIES SHOWN ON THESE PLANS MAY BE ONLY APPROXIMATELY CORRECT AND THE CONTRACTOR IS REQUIRED TO TAKE PRECAUTIONARY MEASURES TO PROTECT THE UTILITIES SHOWN HEREON AND ANY OTHER EXISTING UTILITIES NOT OF RECORD OR NOT SHOWN ON THESE PLANS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIRING, AT HIS/HER EXPENSE, ANY EXISTING UTILITIES DAMAGED DURING CONSTRUCTION.
6. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPLACING, WITH MATCHING MATERIALS, ANY PAVEMENT, WALKS, CURBS, ETC., THAT MUST BE CUT OR THAT ARE DAMAGED DURING CONSTRUCTION.
7. AN APPROVED SET OF PLANS AND ALL APPLICABLE PERMITS MUST BE AVAILABLE AT THE SITE THROUGH THE ENTIRE PERIOD OF CONSTRUCTION WHEN WORK IS ACTIVELY ACCURRING.
8. CONTRACTOR AGREES THAT HE/SHE SHALL ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THIS PROJECT, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY; THAT THIS REQUIREMENT SHALL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS; AND THAT THE CONTRACTOR SHALL DEFEND, INDEMNIFY AND HOLD THE OWNER AND THE COUNTY OF LOS ANGELES (COUNTY) AND THE ENGINEER HARMLESS FROM ANY AND ALL LIABILITY, REAL AND ALLEGED, IN CONNECTION WITH THE PERFORMANCE OF WORK ON THIS PROJECT, EXCEPTING FOR LIABILITY ARISING FROM "THE SOLE NEGLIGENCE OF THE CONTRACTOR OWNER, PROPERTY OWNER OR THE ENGINEER."
9. PHOTOGRAPHS, VIDEOTAPING, AND SKETCHES (AS NECESSARY) MUST BE TAKEN OF ADJOINING CONSTRUCTION, BUILDINGS, AND SITE IMPROVEMENTS WITHIN 200 FEET OF EXCAVATION LIMITS ASSOCIATED WITH THE DAM REMOVAL AND RIVER CHANNEL IMPROVEMENTS PRIOR TO EXCAVATION AND THE INSTALLATION OF EXCAVATION SUPPORT SYSTEMS. SUCH DOCUMENTATION SHALL CONTRIBUTE EXISTING SURFACES THAT MAY BE MISCONSTRUED AS DAMAGE CAUSED BY THIS PROJECT CONSTRUCTION OPERATIONS.

1. THE DAM REMOVAL, RIVER CHANNEL IMPROVEMENTS, AND SLOPE STABILIZATION SHALL TAKE PLACE IN THE SEQUENCE OUTLINED IN THE PROPOSED SEQUENCE OF CONSTRUCTION ON THE "TEMPORARY GRADING AND WATER CONTROL PLAN" AND THE "DEMOLITION PLAN" IN ORDER TO PROVIDE CONTROL OF SEDIMENT MOVEMENT UNTIL THE EXCESS SEDIMENT HAS BEEN REMOVED AND THE DEWATERED RIVER CHANNEL AREA IS GRADED AND STABILIZED AS SHOWN ON THE PLANS.
2. IT IS ANTICIPATED THAT CONSTRUCTION WILL BEGIN IN NOVEMBER OF 2016 AND END IN NOVEMBER 2017. DAM REMOVAL, RIVER CHANNEL IMPROVEMENTS, SLOPE STABILIZATION, AND OTHER IN-CHANNEL MODIFICATION ACTIVITIES SHALL BE PERFORMED WITHIN THE SEASONAL LOW-FLOW PERIOD (JULY 1 - OCTOBER 31). CTDPEP SHALL BE NOTIFIED IF ANY IN-CHANNEL WORK BEFORE OR AFTER THIS PERIOD IS REQUIRED AT LEAST 10 CALENDAR DAYS BEFORE SUCH WORK OCCURS.
3. THE TEMPORARY OFFERDAM SYSTEM AND BY-PASS STRUCTURES MUST BE MAINTAINED TO ALLOW A DEWATERED CONDITION (NO SEDIMENT FLOW) IN THE WATERCOURSE. SOIL DISTURBANCE WITHIN THE WATERCOURSE MUST TEMPORARILY CEASE IN THE EVENT OF ANY ABNORMALLY HIGH STORMWATER RUNOFF EVENT IF A DRY WORKING CONDITION CANNOT BE MAINTAINED WITH THE USE OF WATER PUMPS OR OTHER MEANS.
4. TIMBER AND OTHER MATERIALS FROM THE DAM WITHIN THE CHANNEL EXCAVATION AREA MUST BE REMOVED FROM THE SITE AND DISPOSED OF PROPERLY. CUT STONE AND ROCK RUBBLE FROM THE DAM SHALL BE USED ON SITE AS DIRECTED BY THE OWNER OR ENGINEER IF IT IS FOUND TO COMPLY WITH THE SPECIFICATIONS. ALL EXCESS MATERIALS GENERATED BY THE PROJECT MUST BE REMOVED FROM THE SITE AND DISPOSED OF PROPERLY.
5. THE CONTRACTOR SHALL PROTECT CONSTRUCTED WORK AND ADJACENT PROPERTIES POTENTIALLY AFFECTED BY FLOW DIVERSIONS RESULTING FROM OFFERDAMS AND BYPASS CONVEYANCES DURING FLOOD EVENTS.
6. TEMPORARY OFFERDAM(S) AND WATER DIVERSION STRUCTURE(S) ARE TO BE CONSTRUCTED OF MATERIALS THAT CAN BE COMPLETELY REMOVED FROM THE RIVER UPON COMPLETION OF CONSTRUCTION. REMOVAL OF THE TEMPORARY OFFERDAM(S) SHALL BE CONDUCTED IN A CONTROLLED MANNER.
7. ACCESS, STAGING AND TEMPORARY SEDIMENT STOCKPILING AREAS NOT INDICATED ON THE PLANS SHALL BE DELINEATED BY THE CONTRACTOR FOR APPROVAL PRIOR TO PROJECT INITIATION. ALL DISTURBED AREAS OUTSIDE MODIFIED CHANNEL BANKS SHALL BE STABILIZED AND SUITABLY RESTORED AS INDICATED ON THE PLANTING PLAN (LP-101), OR AS OTHERWISE DIRECTED BY THE ENGINEER.
8. VEHICLE STORAGE AND FUELING SHALL BE PERFORMED AT LEAST 50' OUTSIDE THE RIVER CHANNEL AND ONLY IN DESIGNATED AREAS SUCH THAT THERE WILL BE NO CONTAMINATION OF SOIL, GROUNDWATER OR SURFACE WATER FROM SPILLS OR LEAKS.
9. PRIOR TO CONSTRUCTION, ACCESS AND CONSTRUCTION EASEMENTS WILL BE SECURED BY CTDPEP WHERE ACCESS AND CONSTRUCTION WILL BE REQUIRED ON PRIVATE PROPERTIES SHOWN HEREIN.
10. THE CONTRACTOR SHALL SUBMIT A WATER CONTROL PLAN FOR REVIEW AND APPROVAL BY THE ENGINEER A MINIMUM OF TWO WEEKS PRIOR TO THE START OF CONSTRUCTION.

- 1) THE INSTALLATION AND MAINTENANCE OF EROSION CONTROL DEVICES IS THE RESPONSIBILITY OF THE CONTRACTOR. PRIOR TO THE COMMENCEMENT OF CONSTRUCTION ACTIVITIES, THE CONTRACTOR SHALL INSTALL ALL EROSION AND SEDIMENT CONTROL DEVICE AS SHOWN ON THE PLANS, OR AS DICTATED BY THE CONNECTICUT DEPARTMENT OF ENERGY AND ENVIRONMENTAL PROTECTION AND THE TOWN OF ENFIELD. ALL EROSION CONTROL DEVICES SHALL BE MAINTAINED IN EFFECTIVE CONDITION THROUGHOUT CONSTRUCTION.
- 2) THE CONTRACTOR SHALL EROSION AND SEDIMENT CONTROL MEASURES IN ACCORDANCE WITH THE STANDARDS AND SPECIFICATIONS OF THE "GUIDELINES FOR SOIL EROSION AND SEDIMENT CONTROL" BY THE CONNECTICUT COUNCIL ON SOIL AND WATER CONSERVATION (AS AMENDED 2002).
- 3) THE CONTRACTOR SHALL INSPECT ALL EROSION AND SEDIMENT CONTROL DEVICES AT THE END OF EACH WORKING DAY, AFTER EACH STORM EVENT, AND AT LEAST DAILY DURING PROLONGED RAINFALL. REPAIR OR REPLACEMENT SHOULD BE MADE PROMPTLY AS NEEDED. CLEANOUT OF ACCUMULATED SEDIMENT BEHIND THE SILT FENCES IS NECESSARY IF ONE-THIRD OF THE ORIGINAL HEIGHT OF THE BALES OR SILT FENCE BECOMES FILLED WITH SEDIMENT.
- 4) THE CONTRACTOR IS RESPONSIBLE FOR THE TIMELY INSTALLATION, INSPECTION, MAINTENANCE, AND/OR REPLACEMENT OF ALL TEMPORARY AND PERMANENT EROSION CONTROL DEVICES TO ENSURE PROPER OPERATION THROUGHOUT CONSTRUCTION. THE CONTRACTOR IS RESPONSIBLE FOR MAINTENANCE OF PERMANENT MEASURES UNTIL CONSTRUCTION OF THE PROJECT IS COMPLETED OR UNTIL IT IS ACCEPTED BY THE CONTRACT OWNER. THE CONTRACT OWNER IS RESPONSIBLE THEREAFTER.
- 5) IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO CLEAN ROADS, CONTROL DUST, AND TAKE ALL NECESSARY MEASURES TO ENSURE THAT THE SITE AND ALL ADJACENT ROADS BE MAINTAINED IN A MUD- AND DUST-FREE CONDITION AT ALL TIMES THROUGHOUT THE LIFE OF THE CONTRACT. DUST CONTROL SHALL INCLUDE, BUT IS NOT LIMITED TO, WATER AND/OR CRUSHED STONE OR COARSE GRAVEL.
- 7) THE CONTRACTOR SHALL INSTALL ALL PERIMETER SEDIMENT CONTROL BARRIERS (I.E. SILT FENCE) AS SHOWN ON THE PLANS. A SILT FENCE SHALL ALSO BE INSTALLED AROUND ANY SOIL STOCKPILE AREAS.
- 8) THE CONTRACTOR SHALL RESTORE DISTURBED AREAS AS INDICATED ON THE PLANS. OTHER AREAS DAMAGED DURING CONSTRUCTION SHALL BE RESEDED OR OTHERWISE RESTORED TO THEIR ORIGINAL STATE AS CLOSELY AS POSSIBLE. TREES AND OTHER EXISTING VEGETATION NOT PROPOSED TO BE DEMOLISHED SHALL BE RETAINED AS INDICATED ON THE PLANS.
- 9) TEMPORARY VEGETATIVE COVER SHALL BE APPLIED TO ANY DISTURBED AREAS (INCLUDING SOIL STOCKPILE AREAS) THAT HAVE NOT YET REACHED FINISHED GRADE AS SOON AS POSSIBLE, BUT NOT MORE THAN FOURTEEN (14) DAYS AFTER THE CONSTRUCTION ACTIVITY IN THAT AREA HAS TEMPORARILY CEASED, UNLESS THE ACTIVITY IS TO RESUME WITHIN TWENTY-ONE (21) DAYS. THE RECOMMENDED TEMPORARY SEEDING DATES ARE MARCH 15 TO NOVEMBER 15 WITH APPROVAL OF THE ENGINEER.

TEMPORARILY SEED ERODIBLE SOILS THAT WILL BE EXPOSED GREATER THAN 1 BUT LESS THAN 12 MONTHS WITHIN THE FIRST 7 DAYS OF SUSPENDING GRADING OPERATIONS. APPLY LIME AT A RATE OF 90 LBS/1000 SQ. FT. APPLY PERENNIAL RYE GRASS AT A RATE OF 2 LBS/1000 SQ. FT. TO A DEPTH OF 1/2 INCH.
- 10) PERMANENT VEGETATIVE COVER SHALL BE APPLIED TO ALL DISTURBED AREAS THAT HAVE REACHED FINISHED GRADE AS SOON AS POSSIBLE, BUT NOT MORE THAN FOURTEEN (14) DAYS AFTER THE CONSTRUCTION ACTIVITY IN THAT AREA HAS PERMANENTLY CEASED. THE RECOMMENDED PERMANENT SEEDING DATES ARE MARCH 15 AND AUGUST 15 TO OCTOBER 15. SEED PERMANENT AREAS IN ACCORDANCE WITH THE PLANTING PLAN (SHEET LP-101) AND SPECIFICATIONS.
- 11) IF SEEDING CANNOT BE COMPLETED IMMEDIATELY OR WITHIN THE RECOMMENDED SEEDING DATES, USE THE TEMPORARY MULCHING MEASURE TO PROTECT THE SITE AND DELAY SEEDING UNTIL THE NEXT RECOMMENDED SEEDING PERIOD. TEMPORARY MULCHING SHOULD BE PERFORMED AS SOON AS POSSIBLE, BUT NOT MORE THAN FOURTEEN (14) DAYS AFTER THE CONSTRUCTION ACTIVITY IN THAT AREA HAS TEMPORARILY CEASED UNLESS THE ACTIVITY IS TO RESUME WITHIN TWENTY-ONE (21) DAYS.

12.) STRAW MULCH, WOOD FIBER MULCH, AND HYDROMULCH ARE RECOMMENDED IN DISTURBED UPLAND AREAS. STRAW MULCH SHOULD BE APPLIED AT A RATE OF 2 TONS PER ACRE. WOOD FIBER MULCH SHOULD BE APPLIED AT A RATE OF 1,500-2,000 POUNDS PER ACRE, OR HYDROMULCH APPLIED AT A RATE OF 1,500 POUNDS PER ACRE. WOOD FIBER MULCH SHOULD NOT BE USED ALONE IN THE WINTER DURING HOT, DRY WEATHER. STRAW MULCH MUST BE ANCHORED IMMEDIATELY AFTER SPREADING TO PREVENT WINDBLOWING. MULCH ANCHORING SHOULD ALSO BE USED ON SLOPES GREATER THAN THREE (3) PERCENT. NO MULCH IS TO BE PLACED BELOW NORMAL WATER SURFACE WITHIN THE RIVERBED.

1. THE CONTRACTOR WILL KEEP TEMPORARY SERVICES AND FACILITIES CLEAN AND NEAT.
2. NO VEHICLE SHALL LEAVE THE PROJECT AREA BEFORE SECURING ITS LOAD PER THE GENERAL STATUTES OF CONNECTICUT, VOLUME 6, TITLE 14, CHAPTER 14, SECTION 14-271: SECURING OF LOADS (REVISED JANUARY 1, 2011).
3. THE CONTRACTOR SHALL APPLY WATER AND CALCIUM CHLORIDE UNIFORMLY OVER THE SURFACE WHEN DUST BECOMES A NUISANCE OR WHEN DIRECTED BY THE ENGINEER. A SHUT-OFF VALVE WILL BE PROVIDED IN A CONVENIENT LOCATION ON WATER TRUCK, TO ALLOW FOR REGULATING WATER FLOW.
4. THE CONTRACTOR SHALL PROTECT IN-PLACE EXISTING SITE IMPROVEMENTS. ITEMS MAY INCLUDE, BUT ARE NOT LIMITED TO, UTILITY POLES, WIREWORK, FENCES, CURBING, PROPERTY LINE MARKERS, AND OTHER STRUCTURES. THE CONTRACTOR WILL RESTORE ITEMS PROMPTLY, AND WILL NOT LEAVE RESTORATION UNTIL END OF CONSTRUCTION.
5. AT THE END OF THE CONSTRUCTION DAY, THE CONTRACTOR WILL SWEEP PAVED SURFACES TO REMOVE ANY MATERIAL TRACKED FROM THE PROJECT AREA.
6. AT THE END OF THE PROJECT, THE CONTRACTOR WILL RESTORE THE SITE AS NOTED ON THE PLANS OR AS FOLLOWS:
 - PROVIDE SIX (6) INCHES OF TOPSOIL AND SEED TO AREAS DISTURBED DURING CONSTRUCTION AND NOT DESIGNATED TO BE RESTORED OTHER
 - REPAIR DAMAGES RESULTING FROM CONSTRUCTION LOADS.
 - RESTORE AREAS DISTURBED BY CONSTRUCTION OPERATIONS TO THEIR ORIGINAL CONDITION OR BETTER.
7. CONSTRUCTION CANNOT CAUSE SEDIMENTS TO ACCUMULATE ON STATE ROADWAYS. APPROPRIATE MEASURE SHOULD BE IMPLEMENTED DURING CONSTRUCTION TO MINIMIZE SUCH AND THERE SHOULD BE PERIODIC STREET SWEEPING AS NEEDED.
8. CONSTRUCTION SHOULD ADHERE TO ANY TOWN REQUIREMENTS REGARDING ALLOWABLE WORKING HOURS.


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| GW | GY WIRE |
| | EXISTING HYDRANT |
| INV | INVERT |
| | MANHOLE |
| MN | MAG-NAIL |
| | SEWER MANHOLE |
| TRANS | TRANSFORMER |
| UGC | UNDERGROUND CONDUIT |
| UGP | UNDERGROUND PIPE |
| | UTILITY FLOW |
| | UTILITY POLE |
| | CATCH BASIN |
| CONC | CONCRETE |
| C.U. | CONTINUATION UNKNOWN |
| CMP | CORRUGATED METAL PIPE |
| CPP | CORRUGATED PLASTIC PIPE |
| | DRAIN MANHOLE |
| EP | EDGE OF PAVEMENT |
| EM | ELECTRIC METER |
| OWG | WATER GATE |
| — — — — — | PROPERTY LINE |
| 10+00 + — — — — — | FEMA RIVER STATION |
| — F — — — — — | |
| | FLOODPLAIN BOUNDARY (PER FUSS & O'NEILL HEC-RAS ANALYSIS) |
| | CURB |
| | EXISTING TREE LINE |
| — OHW — — — — — | OVERHEAD WIRES |
| — — — — — | EXISTING STORM DRAIN |
| — — — — — | EXISTING CONTOUR |
| | PROPOSED CONTOUR |
| | FLAGGED WETLAND |
| | TOWN LINE |
| | RAILROAD |
| × | EXISTING SPOT GRADE |
| T.O.S | TOP OF SEDIMENT TO BE REMOVED |
| B.O.S | BOTTOM OF SEDIMENT TO BE REMOVED |
| LOD — — — — — | LIMIT OF DISTURBANCE |

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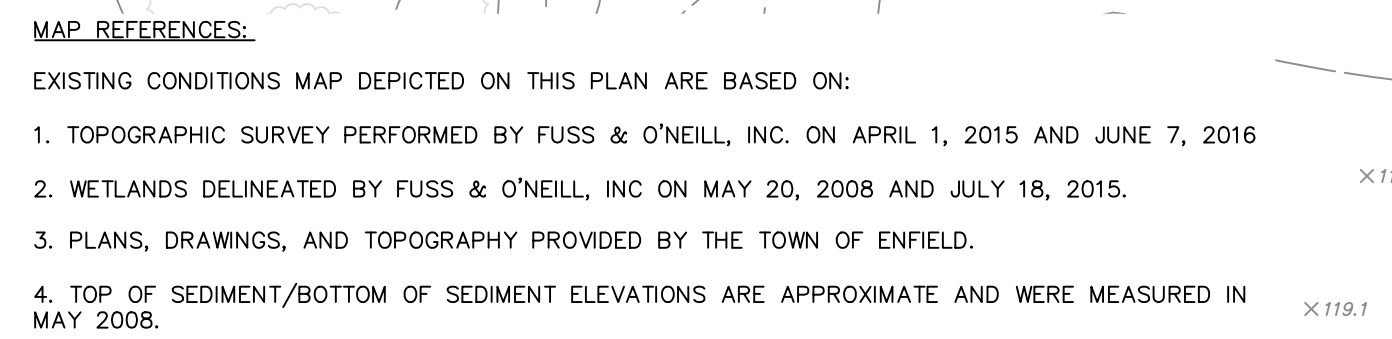
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CONNECTICUT DEPARTMENT OF ENERGY AND
ENVIRONMENTAL PROTECTION
GENERAL INFORMATION
SPRINGBORN DAM REMOVAL
ENFIELD CONNECTICUT

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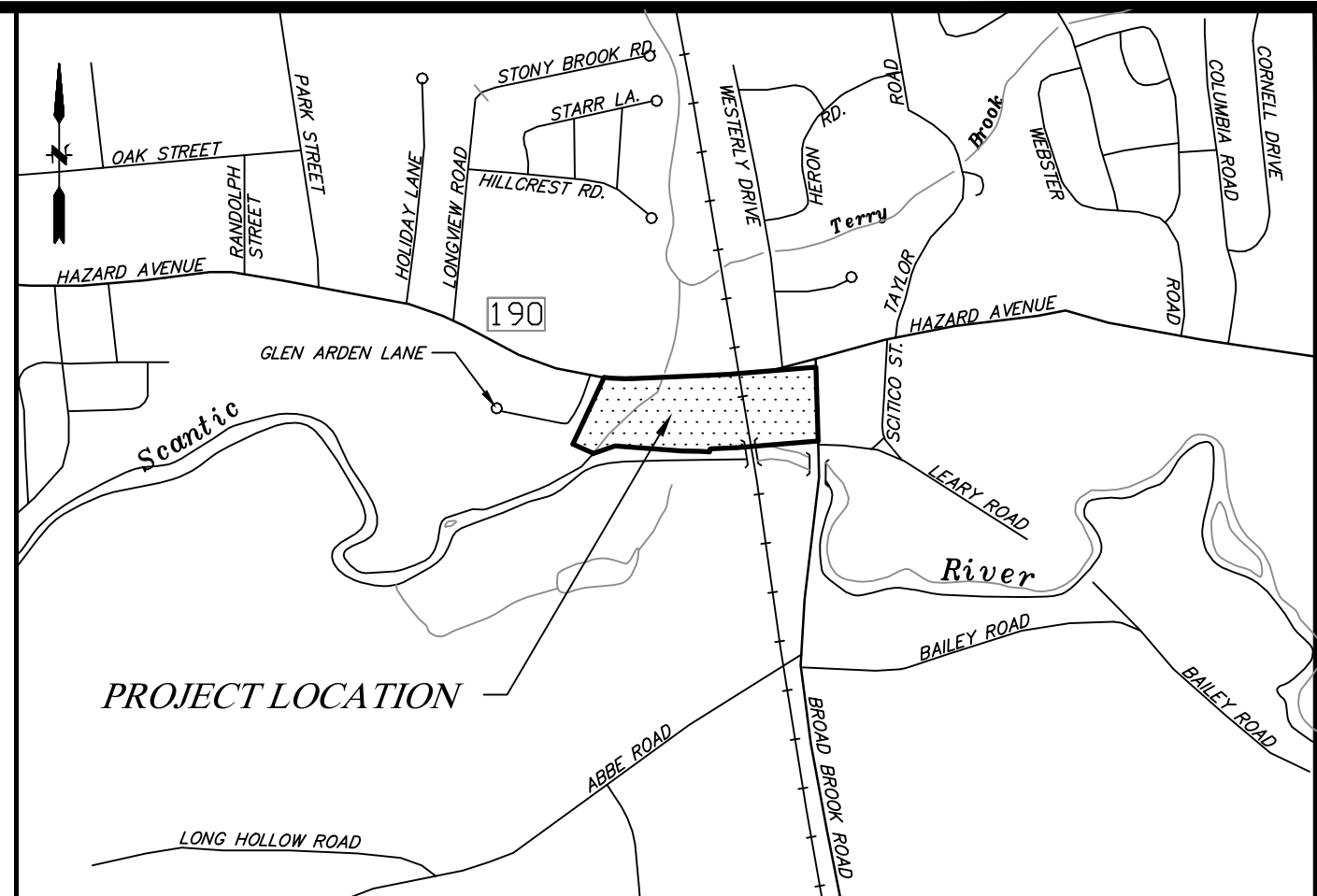



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THE STATE OF CONNECTICUT AND THEIR ASSIGNS RESERVE THE RIGHT FOR INGRESS AND EGRESS OVER EXISTING TRAVEL WAYS AND PRIVATE DRIVE AS SHOWN ON THE PLAN FOR CONSTRUCTION WORK ON THE SPRINGBORN DAM PROJECT.



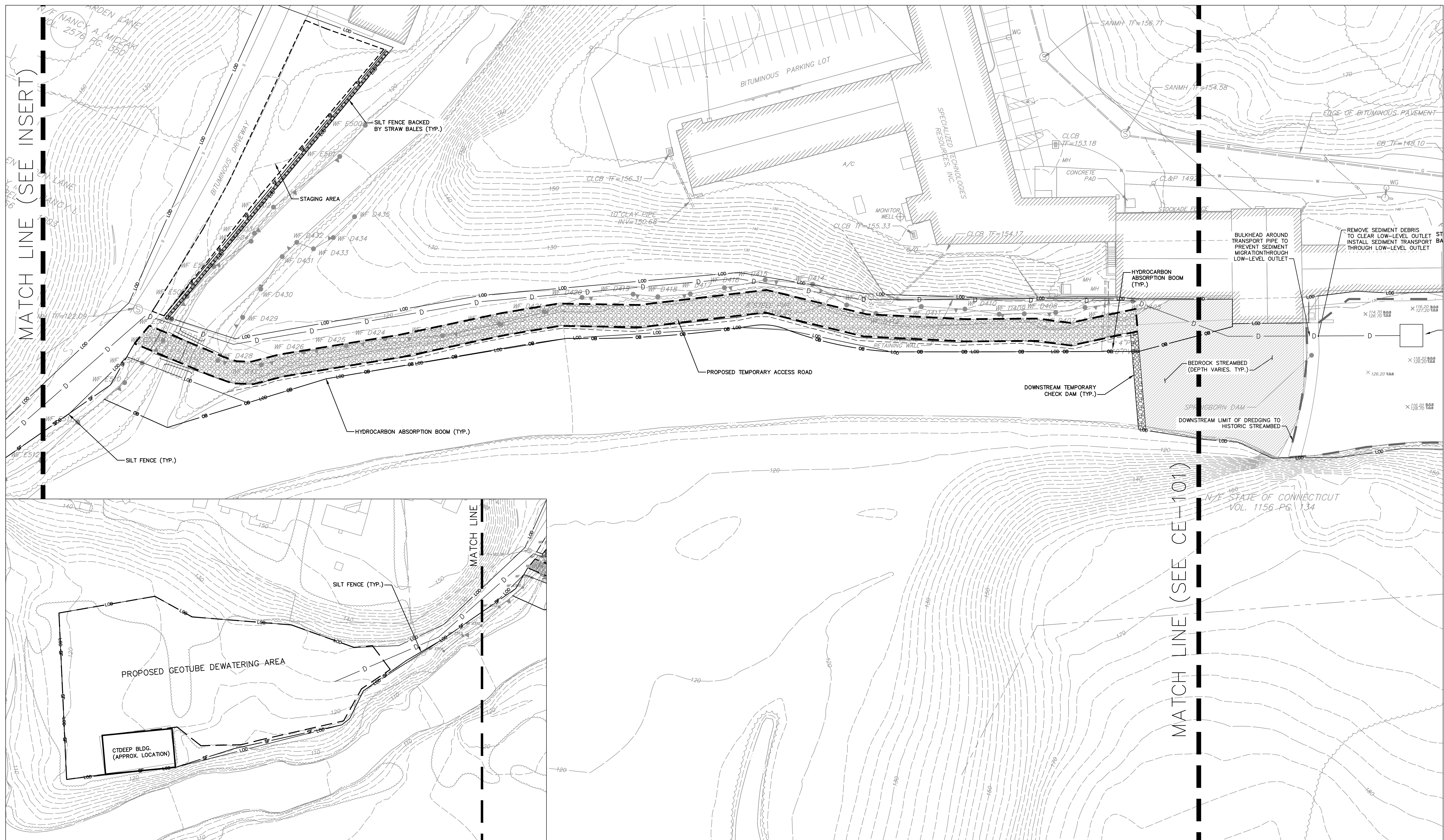
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| SEAL | SEAL | <p>TO MY KNOWLEDGE AND BELIEF, THIS MAP IS SUBSTANTIALLY CORRECT AS NOTED HEREON. THIS MAP SHOULD NOT BE CONSIDERED AN ORIGINAL SIGNED AND SEALED SURVEYOR'S MAP UNLESS THE EMBOSSED SEAL OF THE DIGITALLY ENCRYPTED E-EXCHANGED SIGNATURE & SEAL OF THE LAND SURVEYOR.</p>  <p><u>MICHAEL L. EARLEY</u> <u>LICENSE No. 70224</u></p> |
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MANCHESTER, CONNECTICUT 06040
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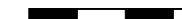


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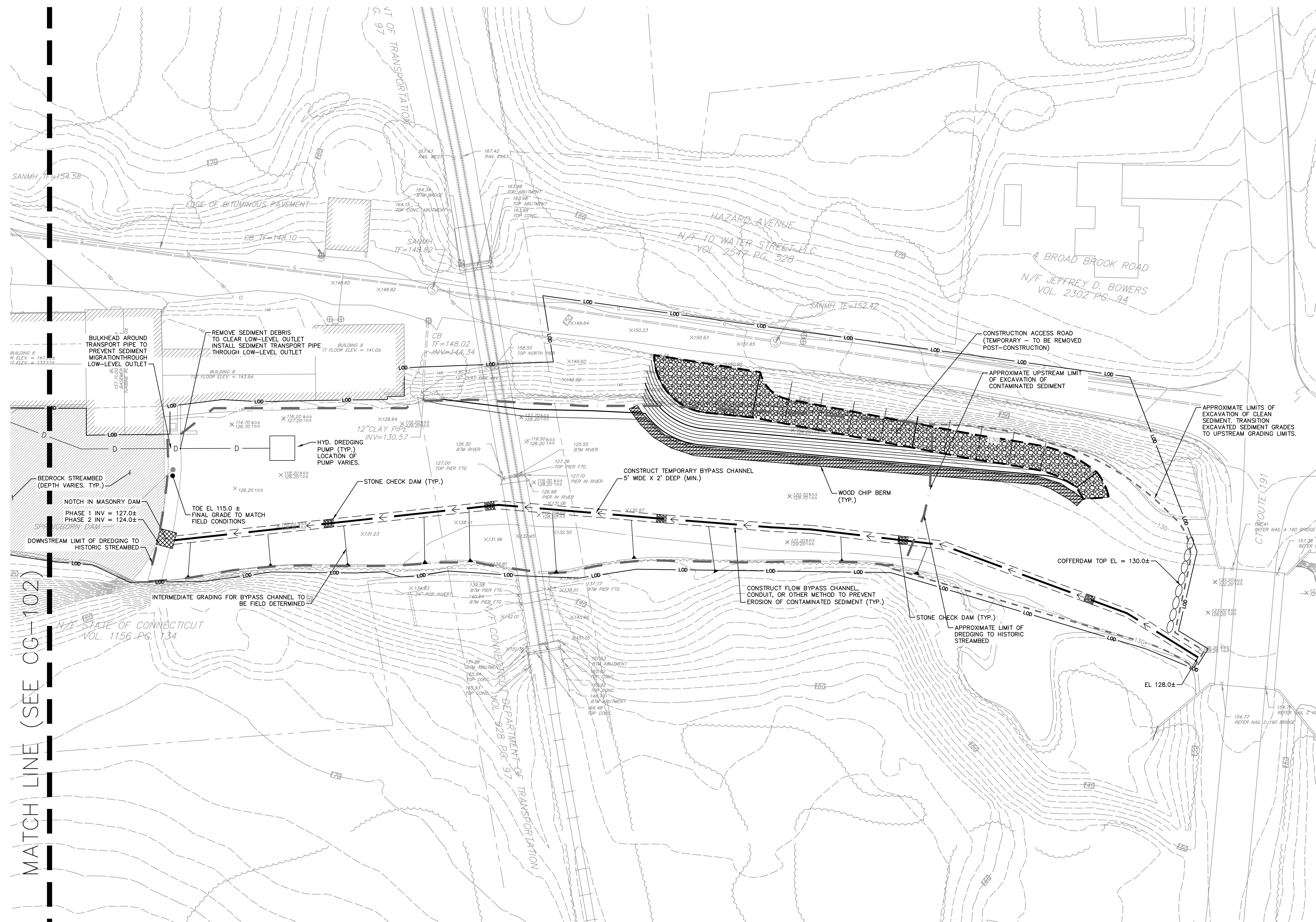
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CONNECTICUT DEPARTMENT OF ENERGY AND
ENVIRONMENTAL PROTECTION
EROSION AND SEDIMENTATION CONTROL PLAN
SPRINGBORN DAM REMOVAL
ENFIELD CONNECTICUT

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| PROJ. No.: 20061136.A63 |
| DATE: 11/8/2016 |
| CE-102 |



WATER CONTROL NOTES AND CONSTRUCTION SEQUENCE:

PHASE 1:

1. COORDINATE DRAWDOWN OF SOMERVILLE POND WITH CT DEEP.
2. INSTALL CONSTRUCTION ACCESS ROAD, COFFERDAM, BYPASS CHANNEL, AND CREATE A NOTCH IN THE MASONRY DAM AS INDICATED ON THE PLAN. UTILIZE THE STORAGE IN SOMERVILLE POND, A BYPASS CHANNEL, WASTE BLOCKS AND PLASTIC LINER, OR BULKHOPS OR SANDBAGS, OR OTHER METHOD AS ACCEPTED BY THE ENGINEER TO DIVERT AND CONTROL WATER WHILE COMPLETING PHASE 1.
3. REMOVE ACCUMULATED DEBRIS AND TIMBER CRIBBING FROM BEHIND THE DAM AND CHANNEL. REMOVE SEDIMENT FROM THE RIVER IN ACCORDANCE WITH THE PLANS AND SPECIFICATIONS. HYDRAULICALLY DREDGE SEDIMENT AND Dewater IN GEOTUBES ON CTDEEP PARKS PROPERTY DOWNSTREAM OF THE DAM. ALLOW THE SEDIMENT TO Dewater PRIOR TO REMOVING. DISPOSE OF THE SEDIMENT AT AN APPROVED FACILITY IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS. CONTRACTOR MAY USE HYDRAULIC DREDGING OR MECHANICAL EXCAVATING IN THE DRY AREAS TO REMOVE SEDIMENT.
4. PERFORM TEST PITS AT RAILROAD PIER AND AT BASE OF BUILDING FOUNDATION AS SHOWN ON PLANS TO CONFIRM FOUNDATION CONDITIONS FOR THESE STRUCTURES.

PHASE 2:

5. DEEPEN BYPASS CHANNEL, AND DEEPEN THE NOTCH IN THE MASONRY DAM AS INDICATED ON THE PLAN. UTILIZE THE STORAGE IN SOMERVILLE POND, BYPASS PUMPING, OR OTHER METHODS AS ACCEPTED BY THE ENGINEER TO CONTROL WATER WHILE INSTALLING THESE ELEMENTS. MAINTAIN A MINIMUM BYPASS CHANNEL DEPTH OF TWO FEET RELATIVE TO THE DREDGING AREA ELEVATION.
6. REMOVE SEDIMENT FROM THE RIVER IN ACCORDANCE WITH THE PLANS AND SPECIFICATIONS. HYDRAULICALLY DREDGE SEDIMENT AND DEWATER IN GEOTUBES ON COTEPED PARKS PROPERTY DOWNSTREAM OF THE DAM. ALLOW THE SEDIMENT TO DEWATER PRIOR TO REMOVING. DISPOSE OF THE SEDIMENT AT AN APPROVED FACILITY IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS. CONTRACTOR MAY USE HYDRAULIC DREDGING OR MECHANICAL EXCAVATING IN THE DRY AREAS TO REMOVE SEDIMENT.
7. REMOVE EXPOSED PORTIONS OF THE MASONRY DAM.

PHASE 3:


8. DEEPEN THE NOTCH IN THE MASONRY DAM.
9. REMOVE THE REMAINING SEDIMENT ABOVE BEDROCK WITHIN THE LIMITS INDICATED. DISPOSE OF THE SEDIMENT AT AN APPROVED FACILITY IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS.
10. CONSTRUCT THE PROPOSED IMPROVEMENTS AND GRADE AREAS AS INDICATED ON THE PLANS.
11. REMOVE TEMPORARY ACCESS ROADS AND TERRY BROOK CROSSING.
12. SEED TOPSOIL AND SEED REMAINING EXPOSED AREAS AS INDICATED ON GI-101 AND ON LP-101.

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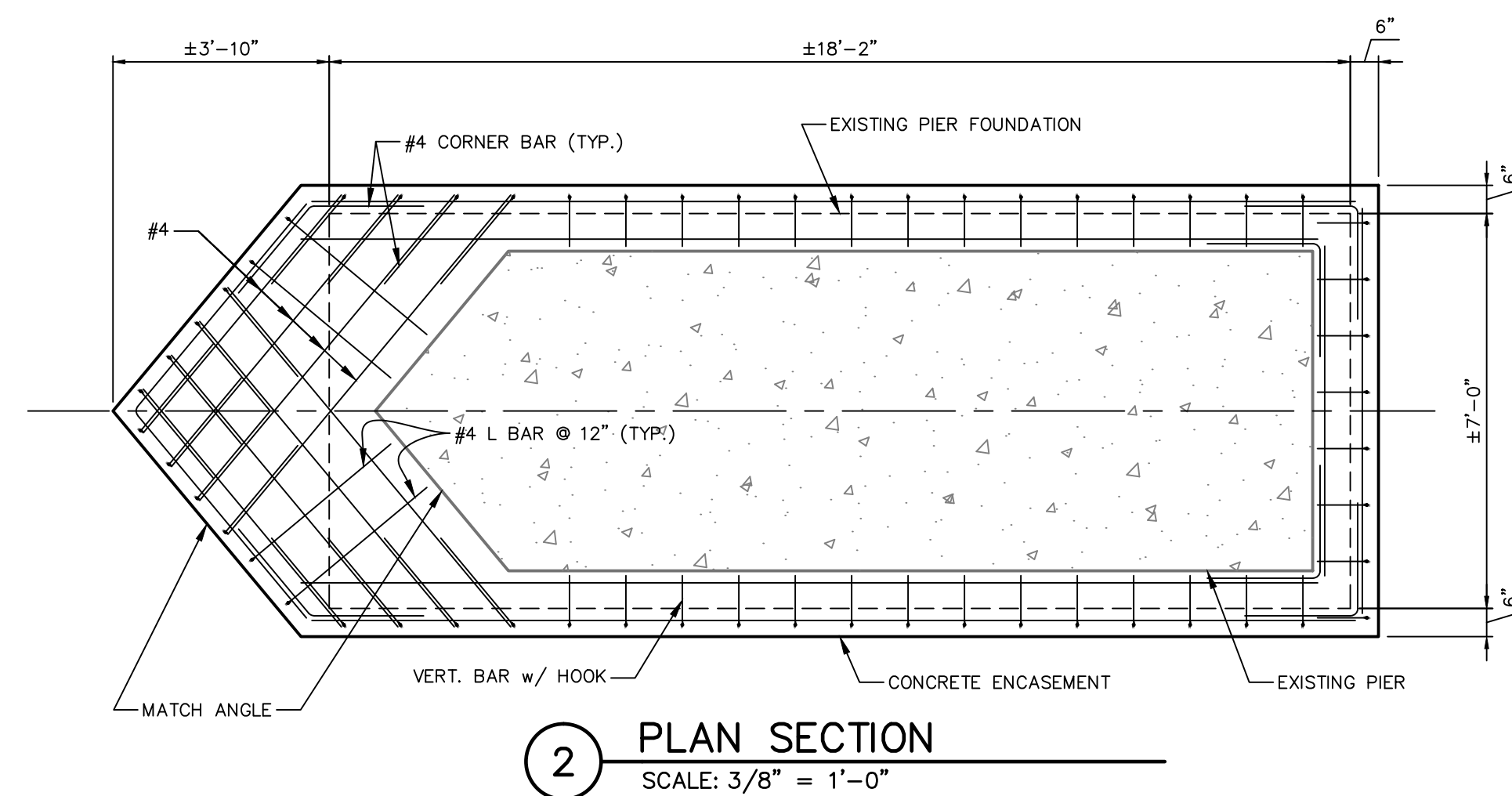


CONNECTICUT DEPARTMENT OF ENERGY AND
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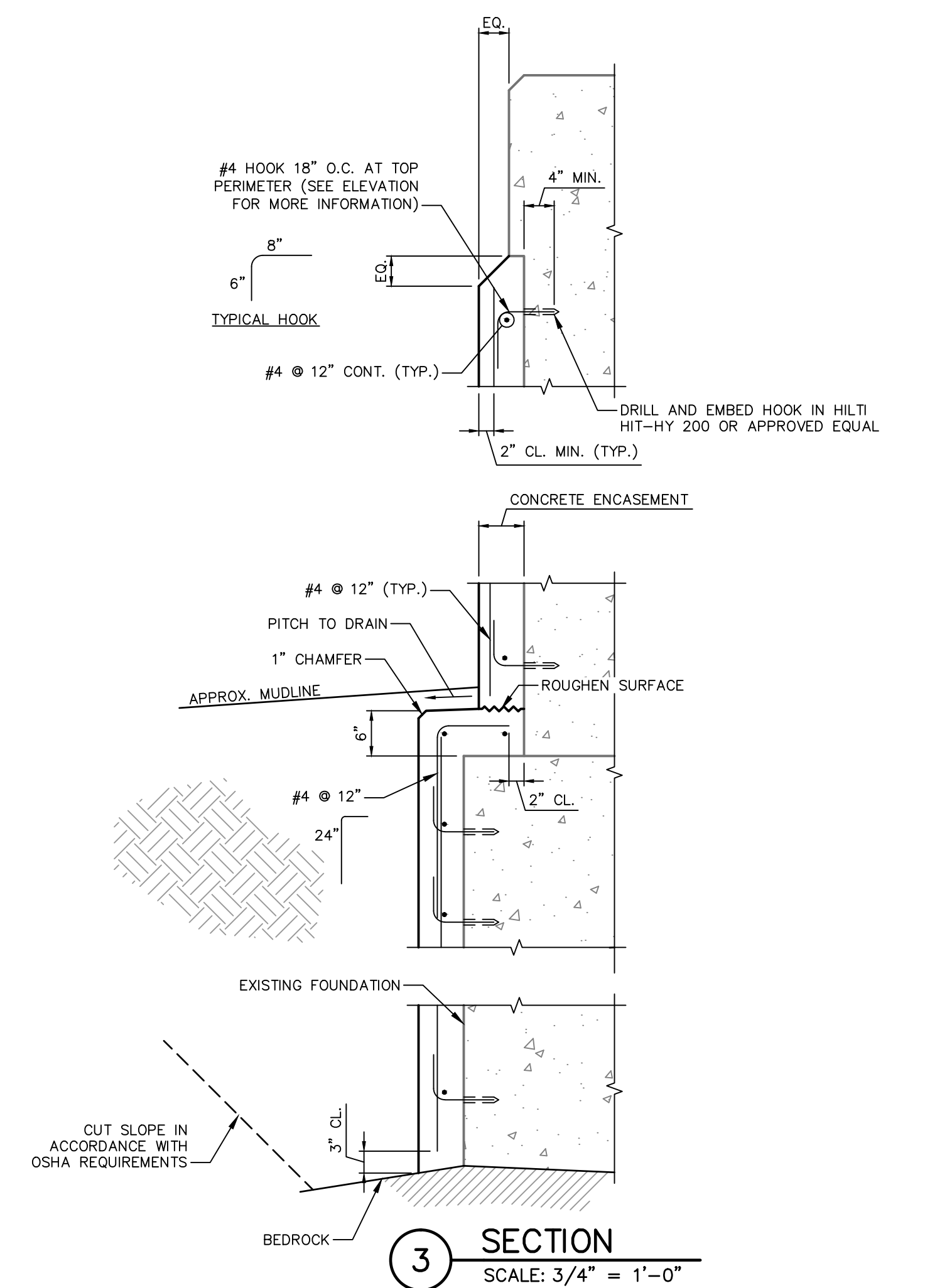
TEMPORARY GRADING AND
WATER CONTROL PLAN

SPRINGBORN DAM REMOVAL

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| PROJ. No.: 20061136.A63 |
| DATE: 11/8/2016 |
| CG-101 |



1. ALL WORK IS DESIGNED IN ACCORDANCE WITH THE CONNECTICUT STATE BUILDING CODE AND ITS APPLICABLE REFERENCES (ACI 350).
2. CUT-SHEETS OF ALL PRODUCTS USED SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL.
3. CONSTRUCTION SHALL BE PERFORMED IN THE DRY.
4. DIMENSIONS OF EXISTING ELEMENTS SHOWN ARE NOT GUARANTEED AND ARE FOR BIDDING PURPOSES ONLY. CONTRACTOR SHALL VERIFY ALL EXISTING DIMENSIONS PRIOR TO FABRICATION OF MEMBERS AND STEEL REINFORCING.
5. CONCRETE SHALL BE 4500PSI, $\frac{3}{4}$ " AGGREGATE MIX WITH AIR ENTRAINMENT FOR SEVERE CONDITIONS (6%) AND A MAXIMUM WATER-CEMENT RATIO OF 0.42. SEE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.
6. STEEL REINFORCEMENT SHALL CONFORM TO ASTM A615 Gr. 60 ($f_y = 60,000$ PSI).
7. PREPARE EXISTING SURFACES AND APPLY APPROVED BONDING AGENT PER MANUFACTURERS INSTRUCTIONS PRIOR TO CASTING ENCASEMENT. BONDING AGENT SHALL BE SIKA ARMATEC 110 EPOCEM OR APPROVED EQUAL.
8. CONDITIONS BELOW THE WATERLINE ARE ASSUMED, IF EXISTING CONSTRUCTION IS NOT CONSISTENT WITH THE PLAN, NOTIFY THE ENGINEER PRIOR TO STARTING WORK.
9. DEFLECTOR PLATE SHALL CONFORM TO ASTM A36 AND BE HOT-DIP GALVANIZED TO ASTM A123 REQUIREMENTS AFTER FABRICATION. CONTRACTOR TO VERIFY REQUIRED LENGTH.



DEFLECTOR DETAIL
SCALE: 1" = 1'-0"

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FUSS & O'NEILL

146 HARTFORD ROAD
MANCHESTER, CONNECTICUT 06040
860.646.2469
www.fando.com

CONNECTICUT DEPARTMENT OF ENERGY AND
ENVIRONMENTAL PROTECTION
PIER ENCAPSULATION DETAILS

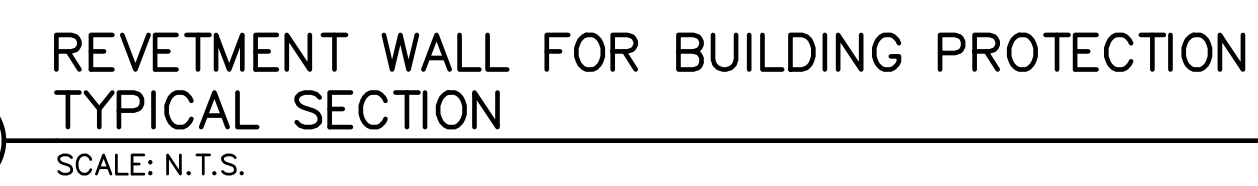
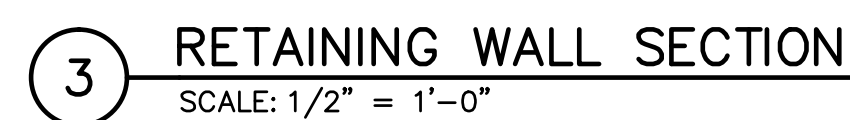
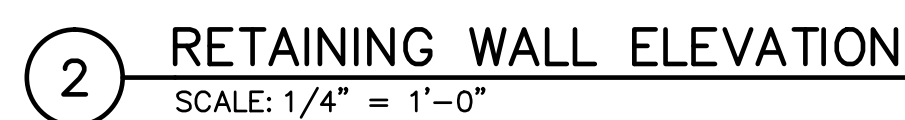
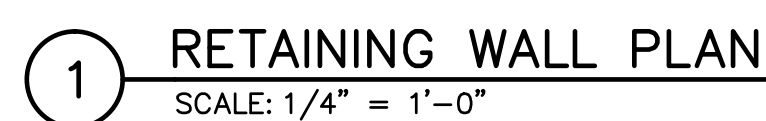
SPRINGBORN DAM REMOVAL

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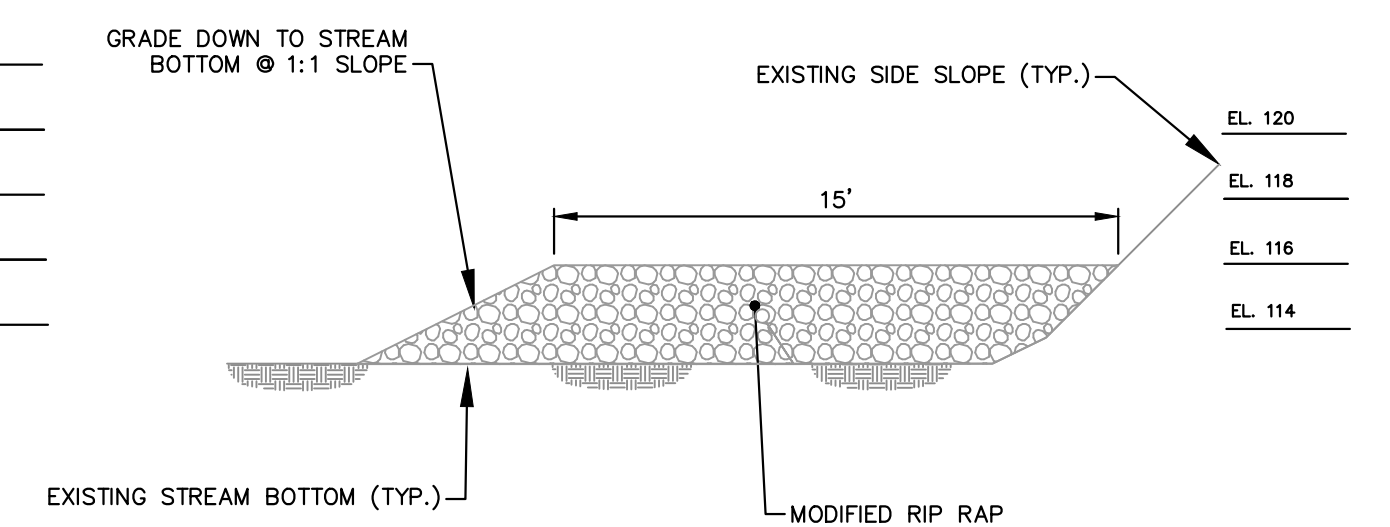
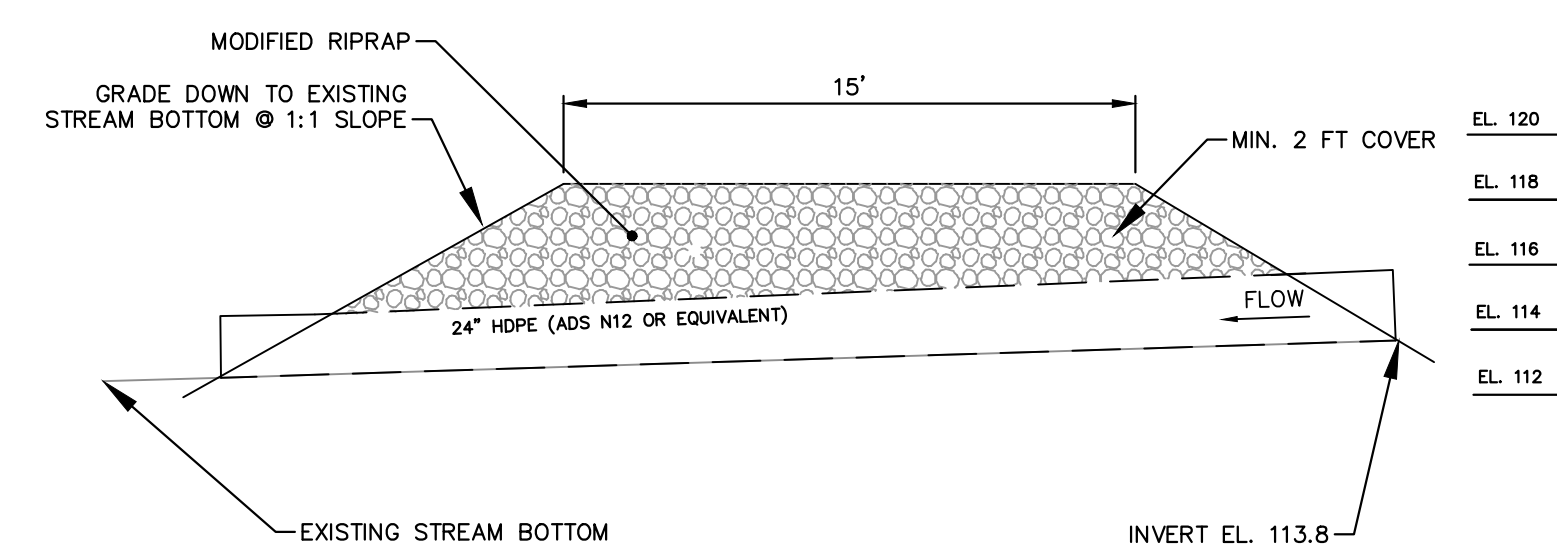
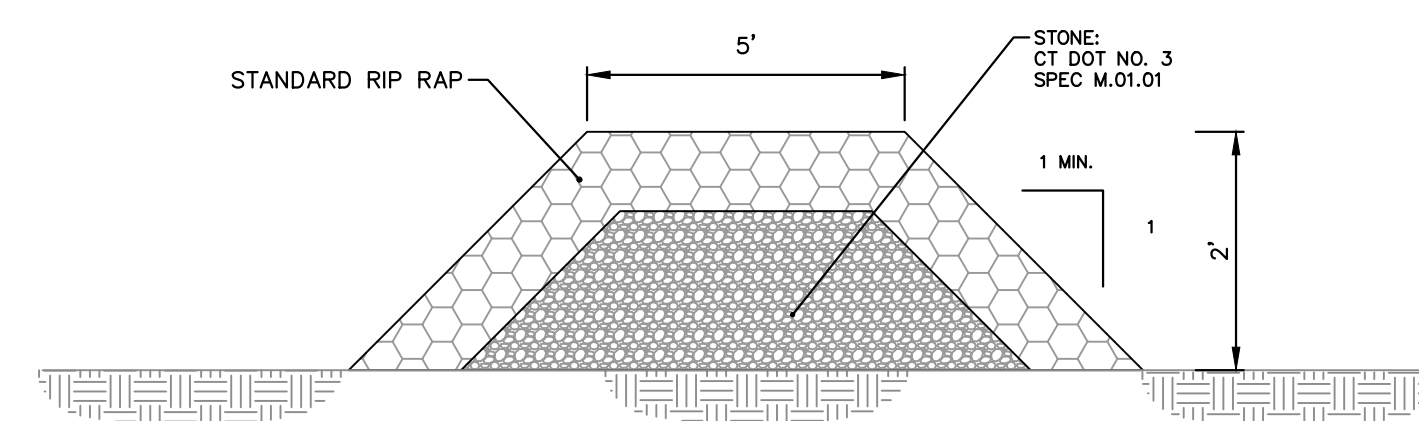
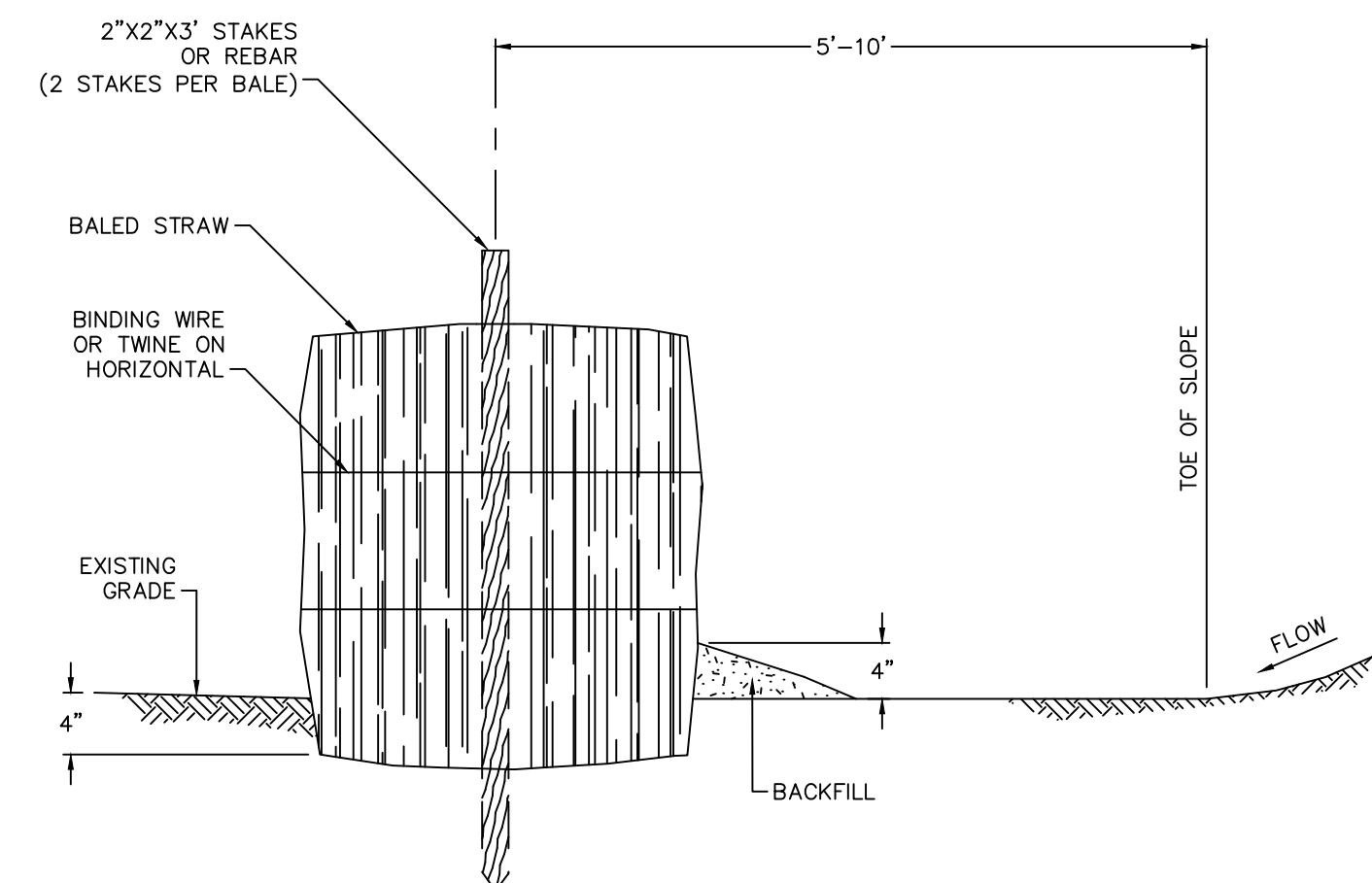
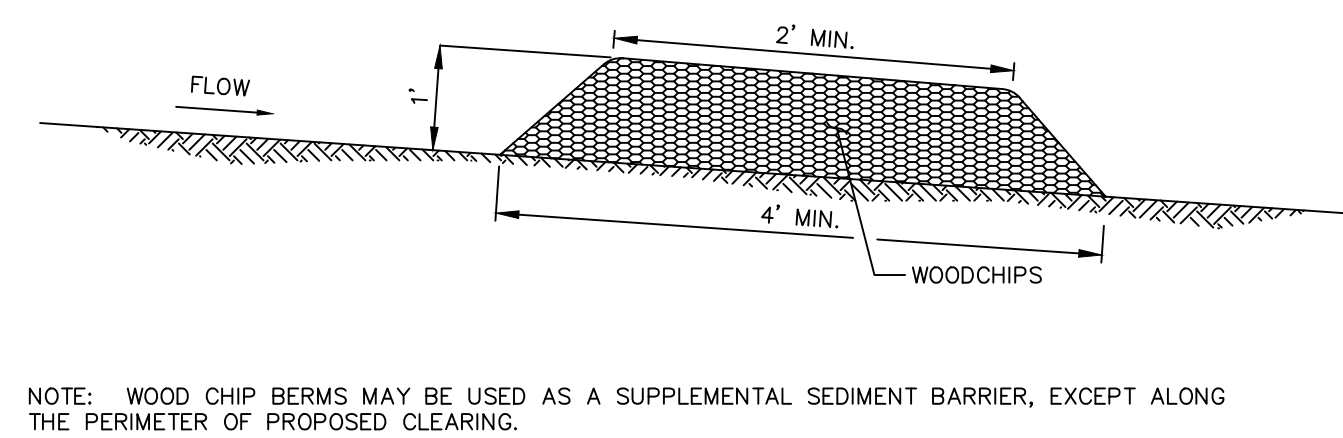
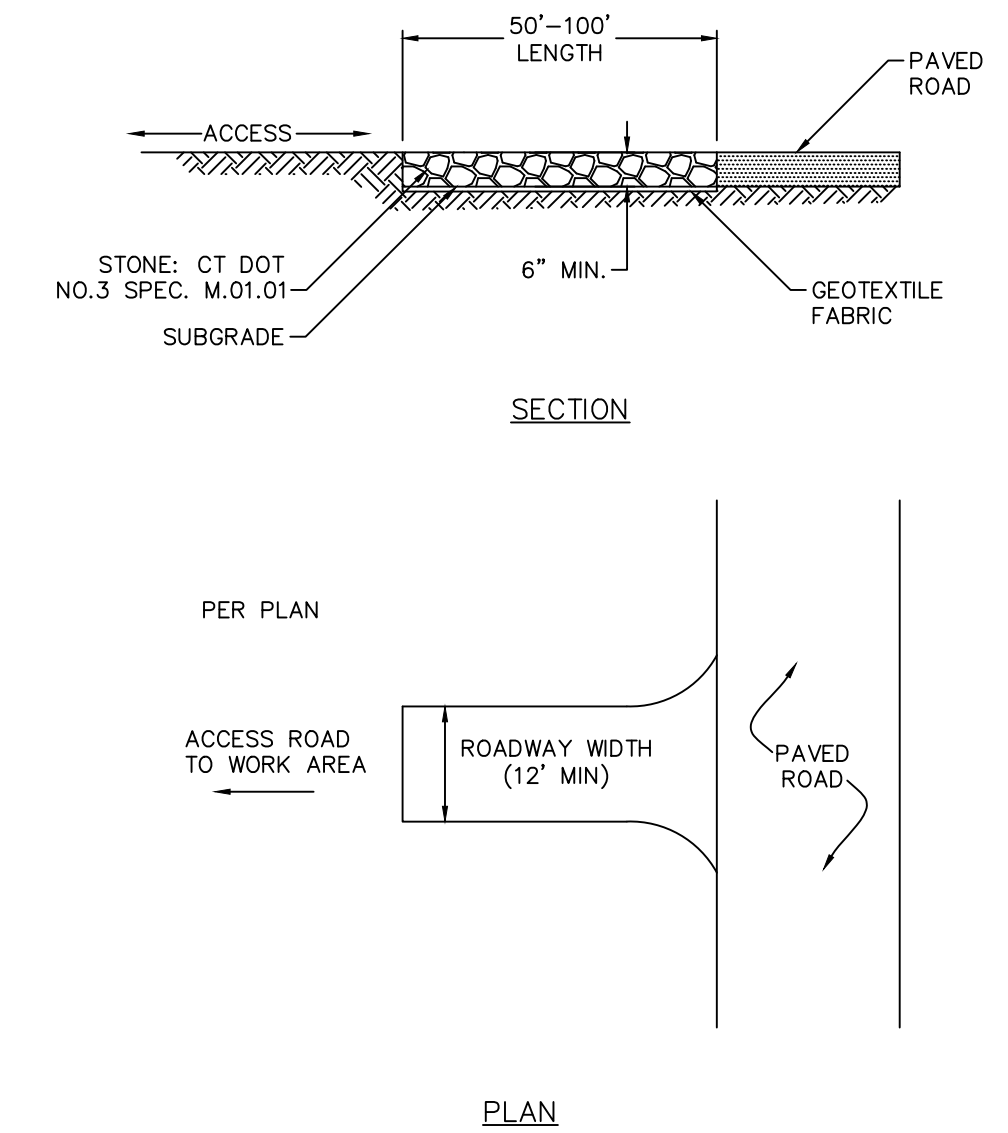
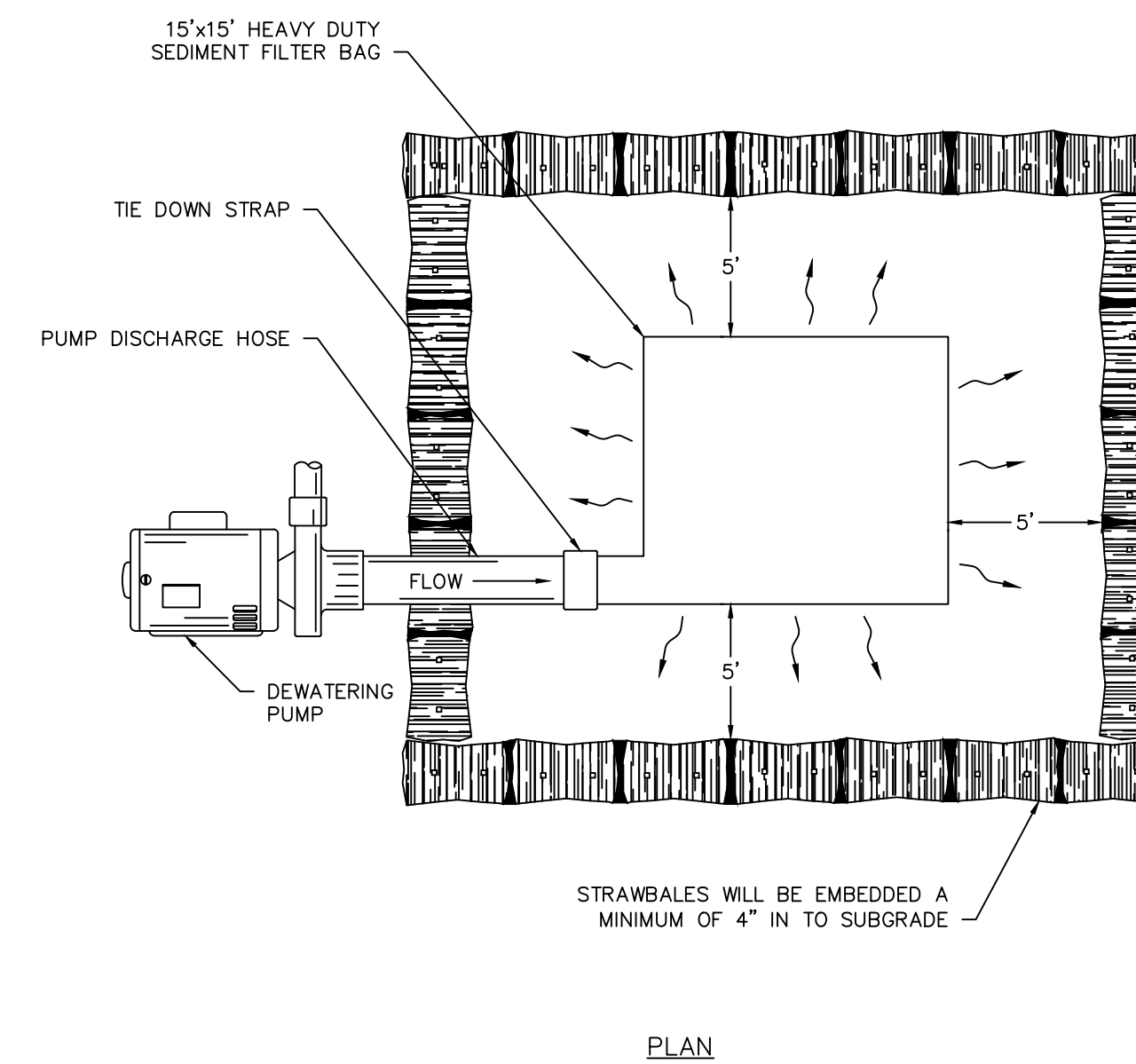
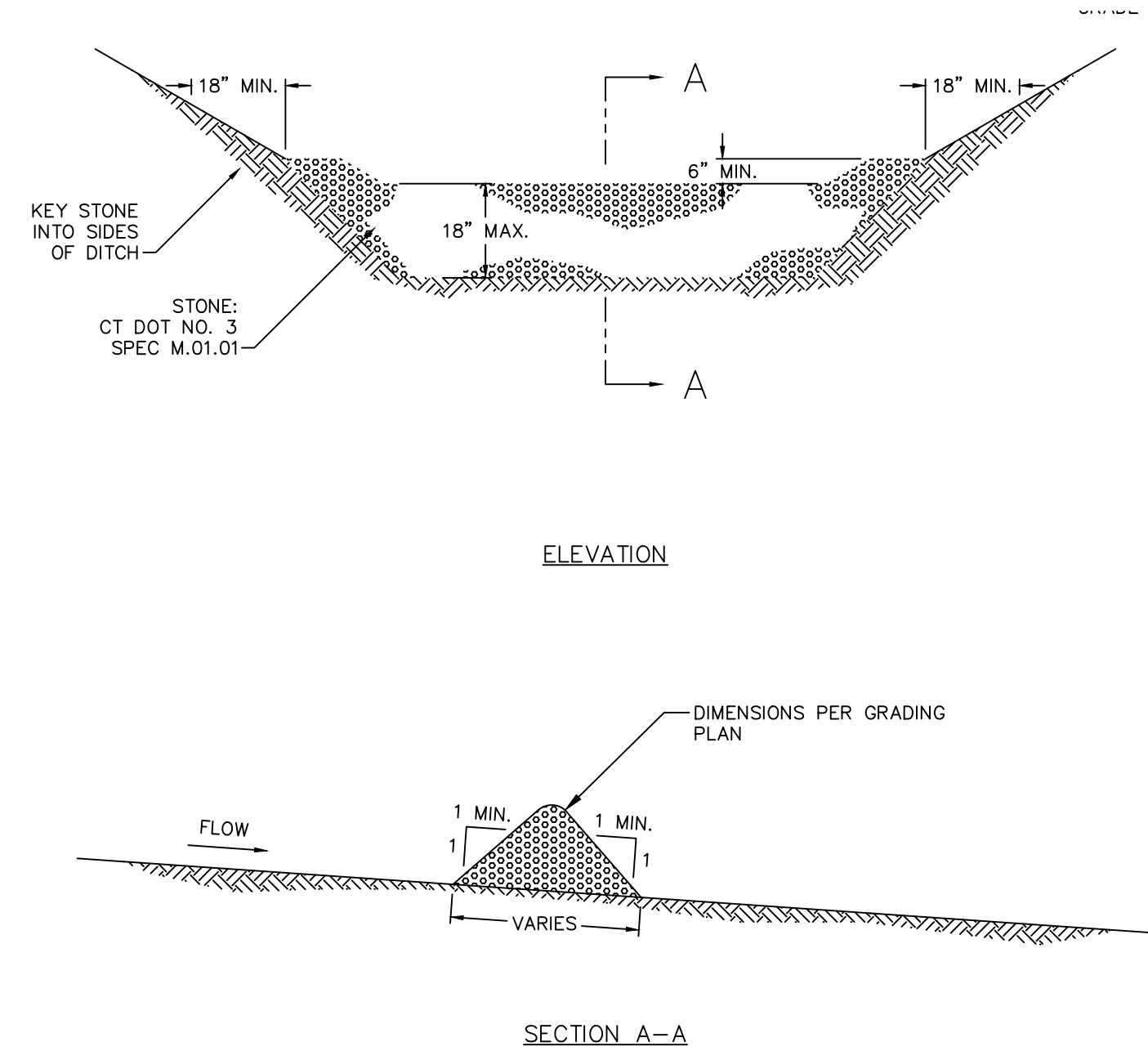
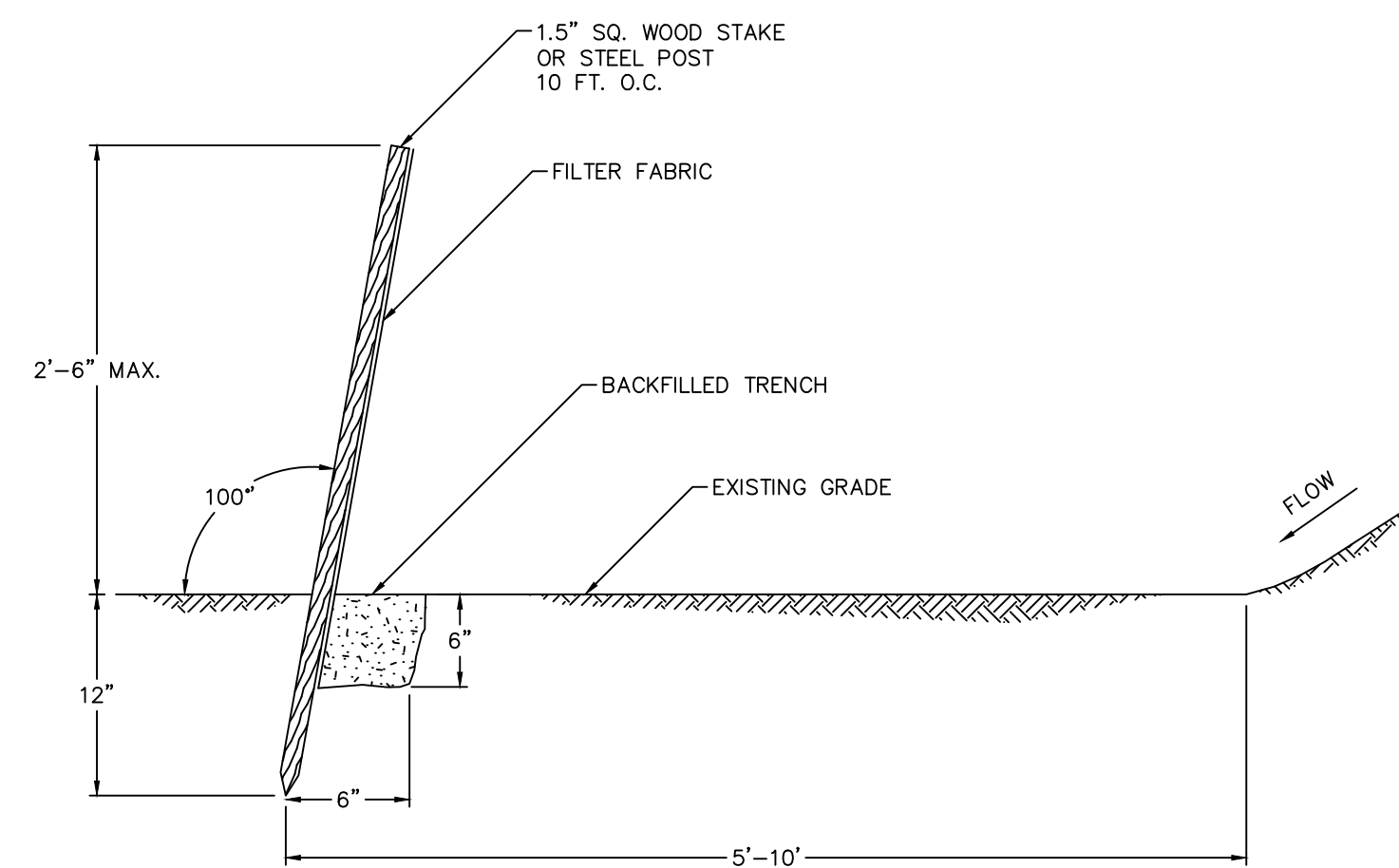
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CONNECTICUT DEPARTMENT OF ENERGY AND
ENVIRONMENTAL PROTECTION
CIVIL DETAILS
SPRINGBORN DAM REMOVAL

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|-------------------------|
| PROJ. No.: 20061136.A63 |
| DATE: 11/8/2016 |
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| <h1>CD-503</h1> |